

**Abstract**

The present invention provides methods and system for building a computer program, such as a dynamically linked library, capable of recognizing graphical user interface objects in HTML applications. The program accepts HTML DOM structures as input and processes the DOM by 1) creating one or more tokens for each parsed DOM element, and 2) parsing the generated tokens according to an application specific grammar. The program outputs user-interface objects that correspond to the graphical elements and other items displayed in the web browser.

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